

Figure 1. Wc-Wa calculation used to predict the weight percent carbon needed in a HDPE composite to achieve  $10^3$  ohms/cm resistivity for 7 different carbon black particles

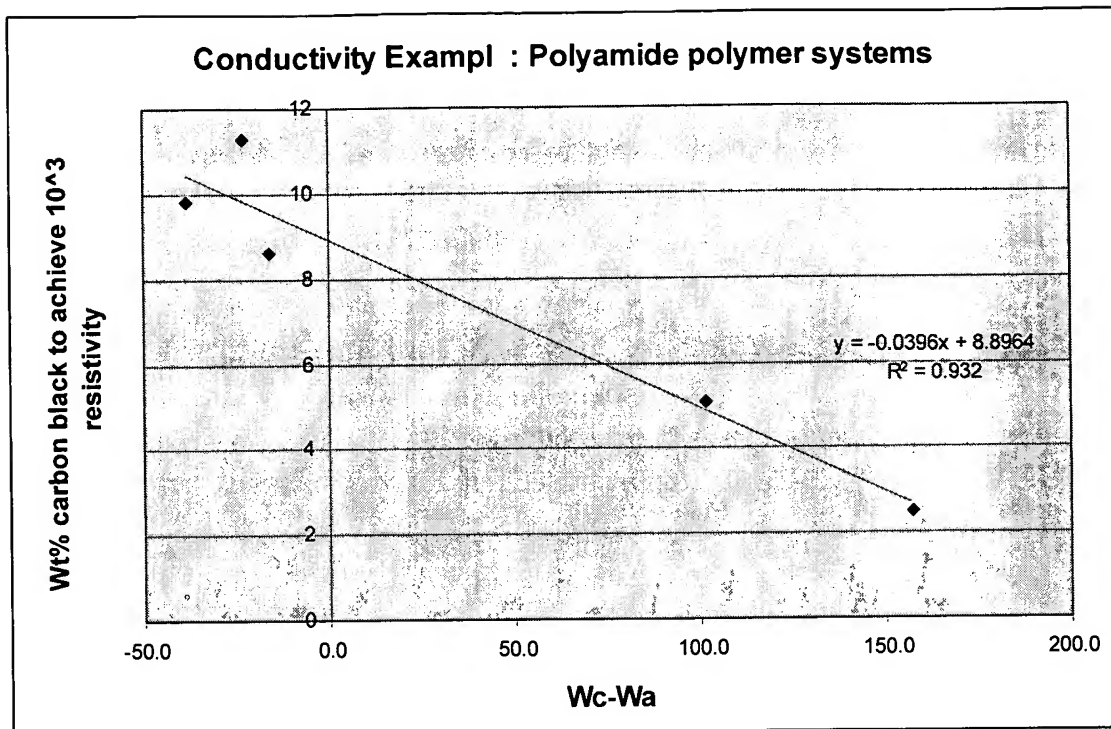


Figure 2. Wc-Wa calculation used to predict the weight percent carbon needed in a polyamide composite to achieve  $10^3$  ohms/cm resistivity for 5 different carbon black particles.

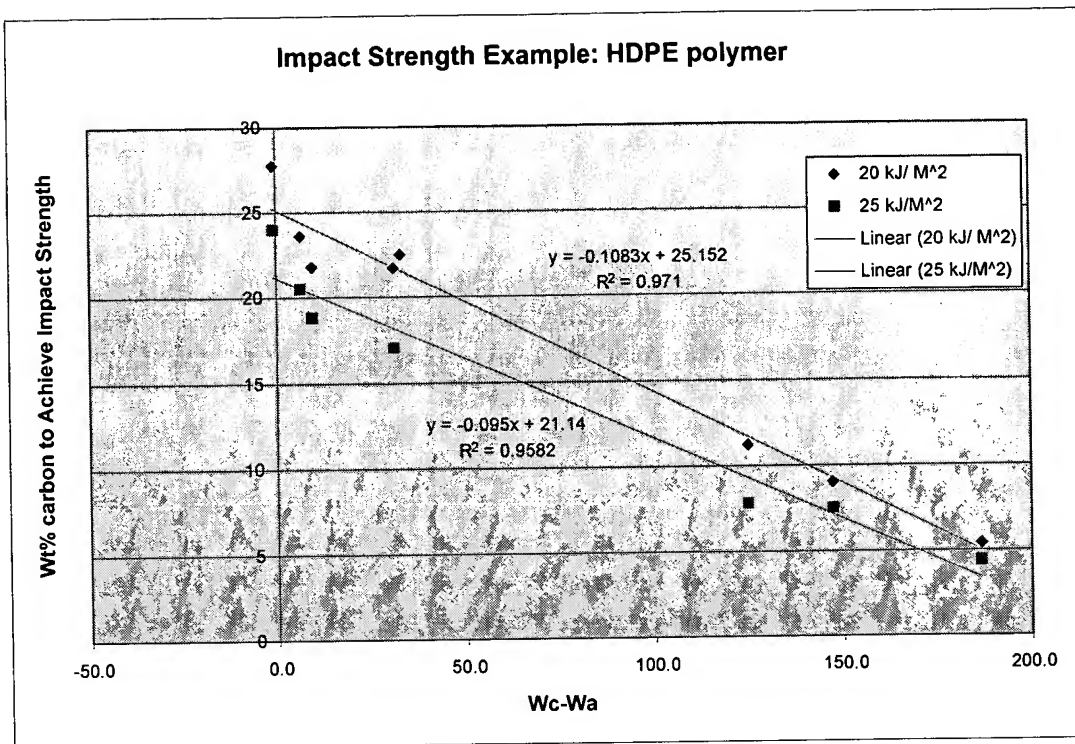


Figure 3. Wc-Wa calculation used to predict the weight percent carbon needed in a HDPE composite to achieve impact resistance of 20kJ/m<sup>2</sup> (diamonds) and 25kJ/m<sup>2</sup> (squares) for 7 different carbon black particles.

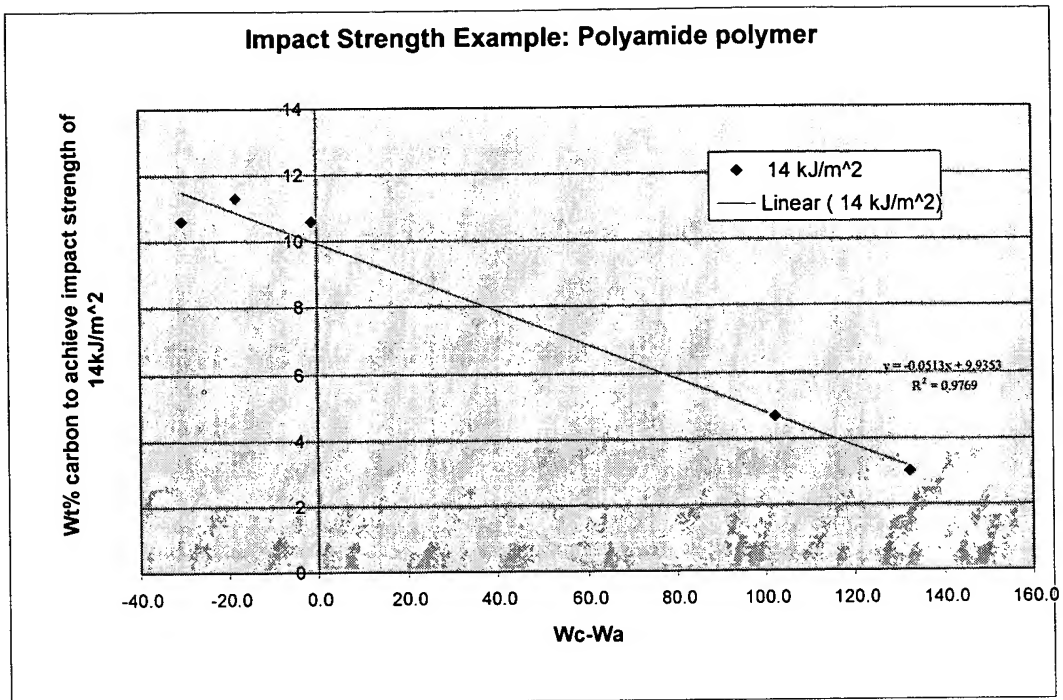


Figure 4. Wc-Wa calculation used to predict the weight percent carbon needed in a polyamide composite to achieve impact resistance of 20kJ/m<sup>2</sup> (diamonds) and 25kJ/m<sup>2</sup> (squares) for 5 different carbon black particles

Figure 5

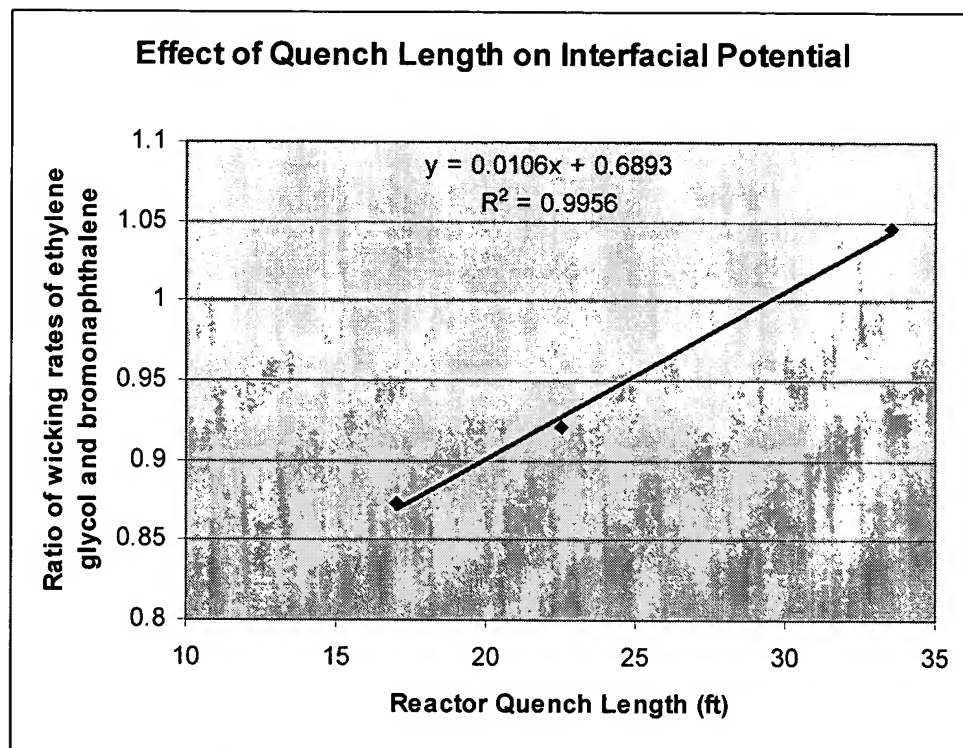


Figure 6

